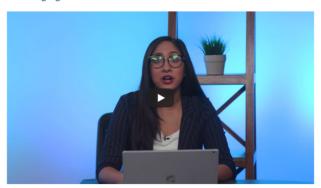
Clustering SEND FEEDE

Clustering

On this page, we'll discuss the unsupervised approach of *clustering* in more detail.

As the name suggests, **clustering** is the problem of organizing entities from the input data into a finite number of subsets or clusters; the goal is to maximize both intra-cluster similarity and inter-cluster differences.

Clustering Algorithms



K-Means Clustering

QUESTION 1 OF 2

Here are the main types of clustering algorithms we just discussed. Can you match each one with its description?

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DESCRIPTION

TYPE OF CLUSTERING

Groups members based on how closely they are packed together; can learn clusters of arbitrary shape.

Density-based clusterin

Builds a tree of clusters.

Hierarchical clustering

Groups members based on their distance from the center of the cluster.

Centroid-based clusterin

Groups members based on the probability of a member belonging to a particular distribution.

Distribution-based clustering

SUBMIT



QUESTION 2 OF 2

Which of the following statements are true about the K-means clustering algorithm? (Select all that apply.)

K-Means is a density-based, unsupervised clustering algorithm.

O It creates up to a target (K) number of clusters and groups similar members together in a cluster.

The objective is to maximize intra-cluster distances

SUBMIT